TC-EX5

SERVICE MANUAL



AEP Model UK Model E Model Australian Model Tourist Model

TC-EX5 is cassette deck section in MHC-EX5.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol [1] are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar M	NEW	
Tape Transport Machanism	DECK A	TCM-190RA12CL
Type	DECK B	TCM-190RB52C

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Frequency response

(DOLBY NR OFF) 40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette 40 – 15,000 Hz (± 3 dB),

using Sony TYPE IV cassette

Wow and flutter

0.1% WRMS±0.3% (DIN)

Dimensions

Approx. $280 \times 125 \times 285 \text{ mm (w/h/d)}$

(11 1/8 x 5 x 11 1/4 inches)

Mass

Approx. 2.9 kg (6 lb 7 oz)

Design and specifications are subject to change without notice.



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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICING NOTE

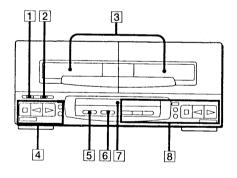
· POWER SUPPLIED WHILE SERVICING

This unit does not work independently because of not having the power supply.

It must be unite together with the other units when repaired.

SECTION 1 GENERAL

LOCATION OF CONTROLS



- DOLBY NR selector (15)
- 2 DIRECTION MODE selector (14)
- 3 Cassette compartments (14)
- 4 Tape operating buttons (for deck A)
 - (front side play) (14)
 - (reverse side play) (14)
 - □ (stop) (14)
 - ▶► (fast rightward and AMS**) (14)
 - (fast leftward and AMS**) (14)
 - ▲ EJÈCT button (14)
- 5 CD SYNCHRO button* (15)
- 6 DUBBING MODE button* (19)
- 7 Display window

This section is extracted from instruction manual.

- 8 Tape operating buttons (for deck B)
 - (front side play) (14)
 - (reverse side play) (14)
 - □ (stop) (14)
 - ►► (fast rightward and AMS**) (14)
 - ◄◄ (fast leftward and AMS**) (14)
 - II PAUSE (14)
 - O REC MUTÉ button (16)
 - REC (recording) (16)
 - ▲ EJECT button (14)
 - **AMS: Automatic Music Sensor (14)

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head pinch roller rubber belts capstan

idlers

- 2. Demagnetize the record/playback head with a head demagnetizer. (Head demagnetizer do not approach for the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 60g • cm (0.42 to 0.83oz • inch)
Forward back tension	CQ-102C	1 to 5g • cm (0.014 to 0.069 oz • inch)
Reverse	CQ-102RC	30 to 60g • cm (0.42 to 0.83 oz • inch)
Reverse back tension	CQ-102RC	1 to 5g • cm (0.014 to 0.069 oz • inch)
FF/REW	CQ-201B	65 to 90g•cm (0.91 to 1.25 oz•inch)

2-2. ELECTRICAL ADJUSTMENTS

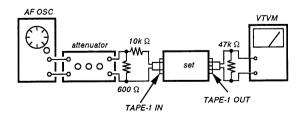
PRECAUTION

- 1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
- 2. The adjustments and measurement should be performed for both L-CH and R-CH.
 - Switch position

• Standard record position :

Deliver the standard input signal level to input jack as follows.

- Record Mode -



Standard Input Level

Input terminal	TAPE-1 (LINE IN)		
source impedance	10k Ω		
input signal level	0.5V (- 3.8dB)		

Standard Output Level

Output terminal	TAPE-1 (LINE OUT)
load impedance	47k Ω
output signal level	0.5V (- 3.8dB)

Test Tape

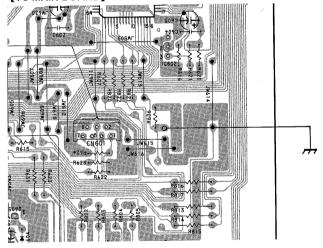
Tape	Conte	nts	Use
P-4-A100	10kHz, -	- 10dB	Azimuth Adjustment
P-4-L300	315Hz,	0dB	PB Level Adjustment
WS-48B	3kHz,	0dB	Tape Speed Adjustment

0dB=0.775V

Test Mode

- 1. If the power supply is TA-EX5. (When AU BUS is alive)
 - ① Short-circuit following portion (IC104 ⑤ pin) on the main board.
 - 2 Turn the POWER on.
 - (3) Open the short-circuit to release test mode.

[TC MAIN BOARD]



2. If the power supply is a jig.

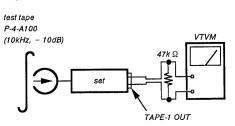
After, turning on the power, press the STOP button of both DECK-A and DECK-B at the same time.

Record/Playback Head Azimuth Adjustment

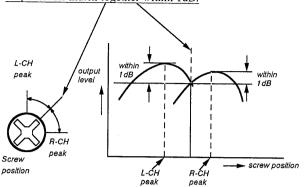
DECK-A DECK-B

Procedure:

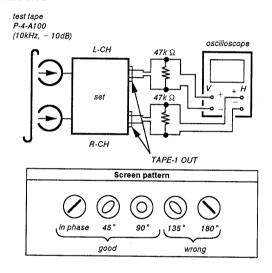
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

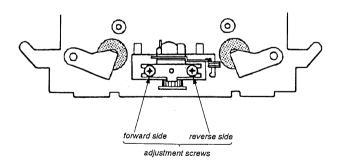


3. Playback Mode



- 4. Change the reveres playback mode and repeat the steps 1 to 3.
- 5. After the adjustment, lock the adjustment screws with suitable locking compound.

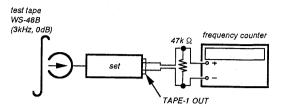
Adjustment Location: - record/playback head -



Tape Speed Adjustment Procedure:

DECK-B

- Forward Playback Mode -



(high speed adjustment)

- 1. Connect (5) pin of IC104 to ground with lead wire.
- 2. Set to FWD playback mode.
- 3. Keep on pressing the DUBBING MODE button at HIGH position.
- 4. Adjust RV72 so that the frequency counter reading becomes $6,000 \pm 30$ Hz.

(normal speed adjustment)

- 1. Set to FWD playback mode.
- 2. Set the DUBBING MODE button to NORMAL.
- 3. Adjust RV71 so that the frequency counter reeding becomes $3,000 \pm 15$ Hz.

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

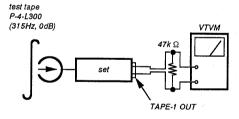
Adjustment Location: AUDIO board. (See page 6)

Playback Level Adjustment

DECK-A DECK-B

Procedure:

- Forward Playback Mode -



Adjust RV11(L-CH) and RV21(R-CH) so the VTVM reading becomes the adjustment limits below.

Adjustment Value:

TAPE-1 OUT level : $-7.7 \pm 0.5 dB$ (0.301 to 0.338V)

Level difference between channels: within 0.5dB

Confirm the TAPE-1 OUT level does not change in playback mode while changing the mode from playback to stop several times.

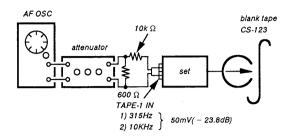
Adjustment Location: AUDIO board. (See page 6)

Record Bias Adjustment

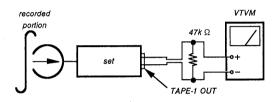
DECK-B

Procedure:

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is 0 \pm 0.5dB relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

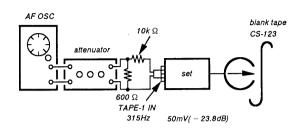
Adjustment Location: AUDIO board. (See page 6)

Record Level Adjustment

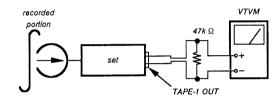
DECK-B

Procedure:

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the steps 1 and 2. $\,$

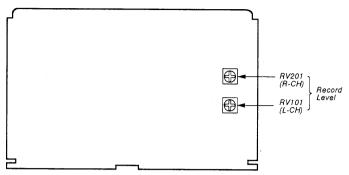
Adjustment Value:

TAPE-1 OUT level : -23.8 ± 0.5 dB (47.2 to 53mV)

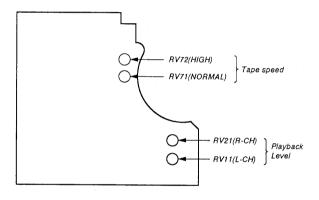
Adjustment Location: TC MAIN board. (See page 6)

- Adjustment Parts Location Diagrams -

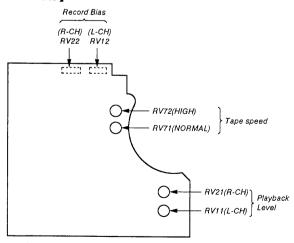
[TC MAIN BOARD]



DECK A : [AUDIO BOARD]



DECK B : [AUDIO BOARD]



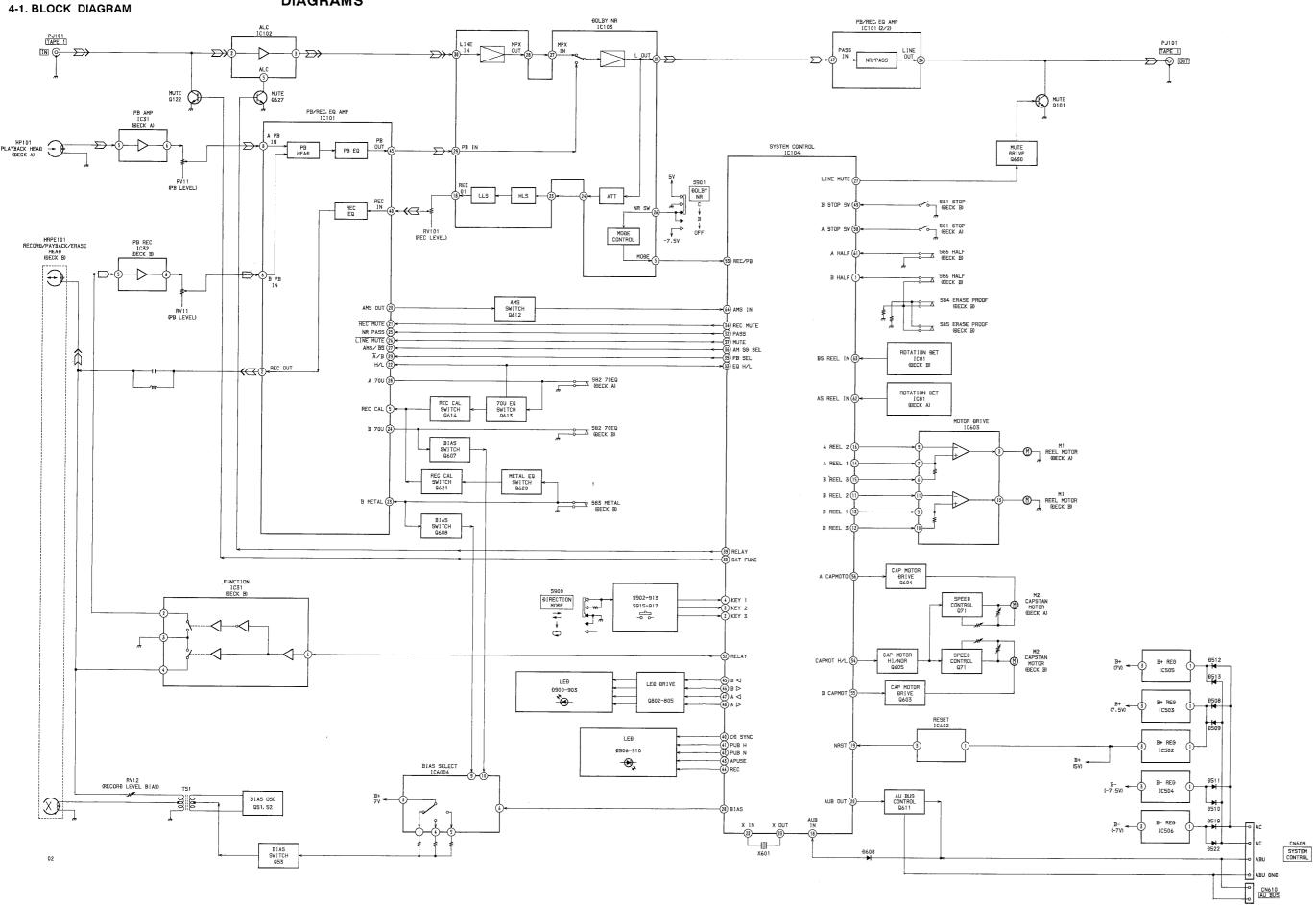
SECTION 3 EXPLANATION OF IC TERMINALS

IC104 M38123M4-118FP TC CONTROL (TC MAIN BOARD)

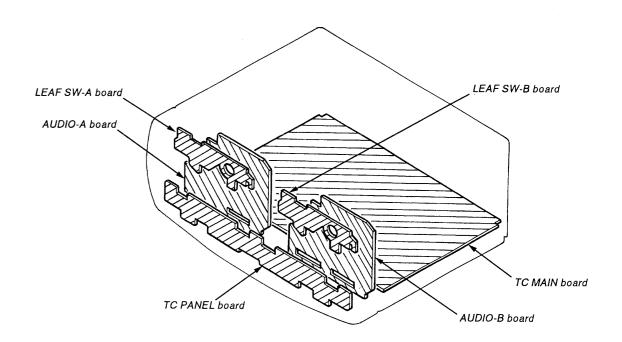
Pin No.	Pin name	I/O	Description
1	B HALF	I	B Half detection input. "L": Presence "H": Nothing
2	KEY3		
3	KEY2	I	Key input. (A/D converter analog input)
4	KEY1		
5	TEST	I	Electrical adjustment test mode setting. "L": Test mode
6	DISP RST		
7	DISP SYNC		
8	DISP CLK	0	GND.
9	DISP OUT		
10	DISP IN		
11	B REEL2		FF TRIG STOP FWD REEL1 H L L H
12	B REEL3	0	Deck B reel motor control output. REEL 2 L H L L
13	B REELI		REEL3 H H L L
14	A REEL1		
15	A REEL3	0	Deck A reel motor control output.
16	A REEL2		
17	PWR IN	I	+5V power supply input.
18	AUB IN	I	Audio bus input.
19	NRST	I	Microcomputer reset input.
20	AUB OUT	0	Audio bus output.
21	XC OUT	0	Not used. (GND)
22	X IN	I	Osillator connection pins. (4MHz)
23	X OUT	0	
24	Vss		GND.
25	VER		GND.
26	PWR OUT	0	Not used. (Open)
27	LINE MUTE	0	Line mute ON/OFF. "L": ON
28	BIAS	0	Bias oscillation control output. "L": ON
29	NC		GND.
30	DAT FUNC	0	DAT mute output.
31	CD FUNC	0	CD mute output.
32	PASS	0	PASS amplifier switch output to dolby.
33	EQ H/L	0	REC equalizer switching output. "L": High speed "H": Normal speed
34	REC MUTE	0	REC mute output.
35	PB SEL	0	Play mode deck A/B select output. "L": DECK A "H": DECK B
36	AMS G SEL	0	AMS/BS mode select output. "H": AMS mode "L": BS mode
37	1599 MUTE	0	Mute output to IC101 (CXA1599Q). "H": ON "L": OFF
38	NC		Not used. (GND)
39	NR RELAY	0	ALC control output.
40	CD SYNC	0	CD synchro dubbing LED output "H": ON "L": OFF

Pin No.	Pin name	I/O	Description
41	DUB:H	0	High speed dubbing LED output. "H": ON "L": OFF
42	DUB N	0	Normal speed dubbing LED output. "H": ON "L": OFF
43	PAUSE	0	PAUSE LED output. "H": ON "L": OFF
44	REC	0	REC LED output. "H": ON "L": OFF
45	В⊲	0	Deck B REV LED output. "H": ON ."L": OFF
46	B⊳	0	Deck B FWD LED output. "H": ON "L": OFF
47	A	0	Deck A REV LED output. "H": ON "L": OFF
48	AD	0	Deck A FWD LED output. "H": ON "L": OFF
49	B STOP SW	I	Deck B stop detect input. "H": STOP
50	A STOP SW	I	Deck A stop detect input. "H": STOP
51	+7.5V DET	I	+7.5V power supply detect input.
52	RELAY	0	Control output to REC/PB select output. "H": REC "L": PLAY
53	REC/PB	0	Dolby IC (IC103) REC/PB select output. "H": REC "L": PLAY
54	CAP. MOT H/L	0	Capstan motor HIGH/LOW select output. "H": HIGH "L": LOW
55	B CAP. MOTOR	0	Deck B capstan motor control output. "H": ON "L": OFF
56	A CAP. MOTOR	0	Deck A capstan motor control output. "H": ON "L": OFF
57	V _{DD}		+5V power supply.
58	VEE	_	GND.
59	AVss		GND.
60	VREF	I	A/D converter reference power supply +5V.
61	A HALF	I	Deck A half detect input.
62	BS. REEL IN	I	Deck B reel table signal input.
63	AS. REEL IN	I	Deck A reel table signal input.
64	AMS IN	I	AMS input. "L": No song "H": Song

SECTION 4
DIAGRAMS



• CIRCUIT BOARD LOCATION



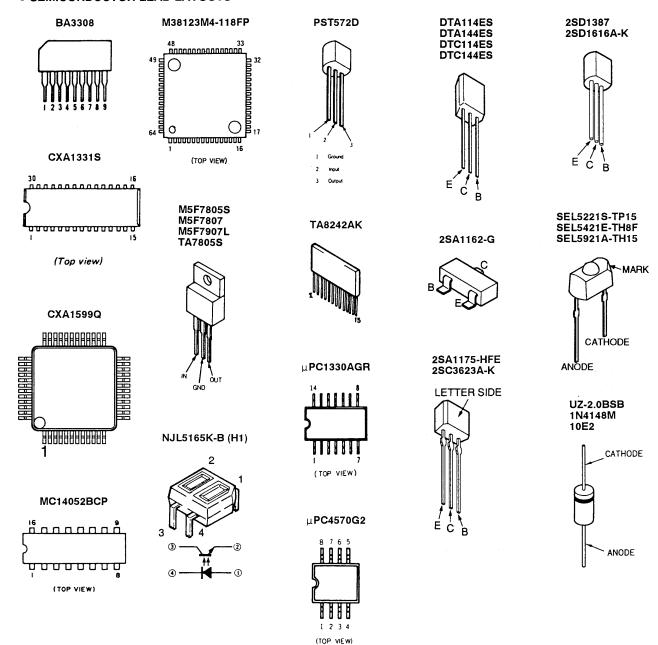
Signal path.

PB (DECK A)

PB (DECK B)

EREC (DECK B)

• SEMICONDUCTOR LEAD LAYOUTS



D508 D509 D510 D511 D512

D513 D519 D522 D523 D524

D525 D526 D601 D602 D603

D604 D605 D606 D607 D608

D609 D610 D611 D620 D900

D901 D902 D903 D906 D907

D808 D909 D910

IC31 (A) E - 11 IC31 (B) D - 3 IC32 D - 4

IC81 (A) I - 13

IC81 (B)

IC101

B - 25

B - 25 B - 24

B - 23

B - 23

C - 25

D - 24

B - 22

B - 22 D - 26 E - 26

G - 24

G ~ 24

E - 22 E - 22 D - 20

D - 27

D - 26

F - 22

D - 26

E - 20

J - 21

J - 23

J - 22 J - 20

J - 21

J - 21

J - 23

J - 23

l - 5

E - 19

IC102 IC103

IC104

IC502

IC503

IC504 IC505

IC506

IC602

IC603

Q51

Q52

Q53

Q101

Q122 Q201

Q222

Q603

Q604

Q605

Q607

Q608

Q609

Q611

Q612

Q613

Q614

Q620

Q621

Q627

Q630

Q802 Q803

Q804

Q805

4-2. PRINTED WIRING BOARDS • Refer to page 12 for Semiconductor Lead Layouts. 23 26 • SEMICONDUCTOR LOCATION SYSTEM CONTROL Ref. No. Location Ref. No. Location R-IN-L R-OUT-L [TC MAIN BOARD] C - 20 C - 18 [AUDIO BOARD] (DECK A) AUDIO BOARD] (DECK B) E - 25 C - 26 D - 25 D - 24 C - 22 D - 22 E - 26 E - 22 IC6004 G - 20 C - 5 C - 5 C - 4 Q71 (A) D - 13 HRPE I RECORD/PLAYBACK/ERASE Q71 (B) D-6 PLAYBACK HEAD D - 19 B - 21 D - 19 B - 20 H - 22 H - 24 G - 24 G - 21 G - 21 G - 22 C - 26 D - 20 E - 20 E - 20 E - 20 E - 20 B - 20 D - 20 H - 25 H - 25 H - 26 H - 26 1-654-753-[LEAF SW BOARD] (DECK B) [TC PANEL BOARD] • O---: parts extracted from the component side.

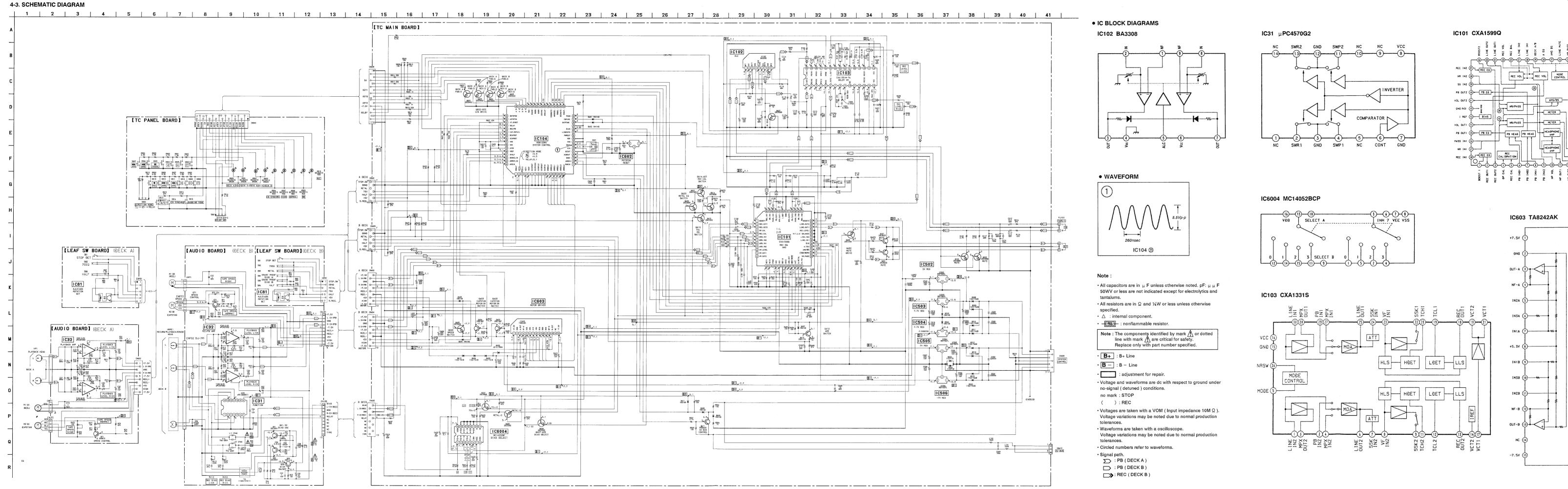
— 14 —

— 13 -

— 15 —

- 16 -

- 21. -



— 19 —

— 18 —

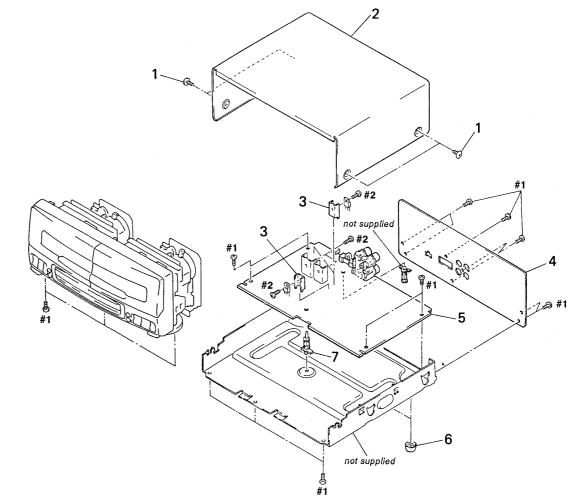
— 17 —

SECTION 5 EXPLODED VIEWS

- NOTE:

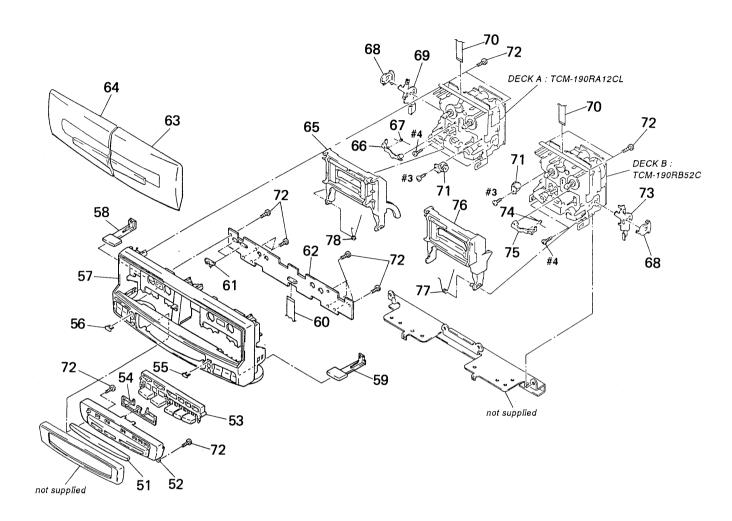
 -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "* "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 The mechanical parts with no reference number in the exploded views are not curplied.
- supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

5-1. CHASSIS SECTION

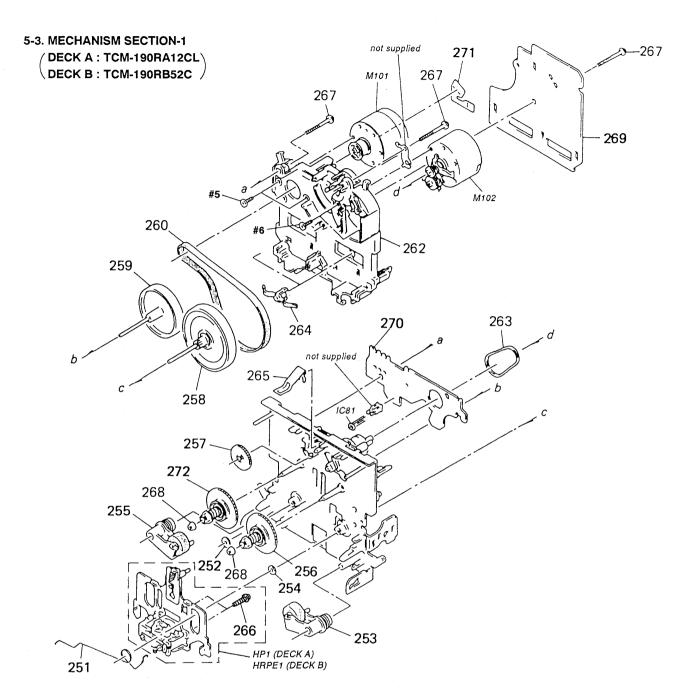


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 2 * 3 * 4	3-363-099-21 3-919-558-01 3-309-144-21 3-919-578-01	HEAT SINK		* 5 6 * 7	4-965-822-01	TC MAIN BOARD, COMPLETE FOOT HOLDER, PC BOARD	

5-2. FRONT PANEL SECTION



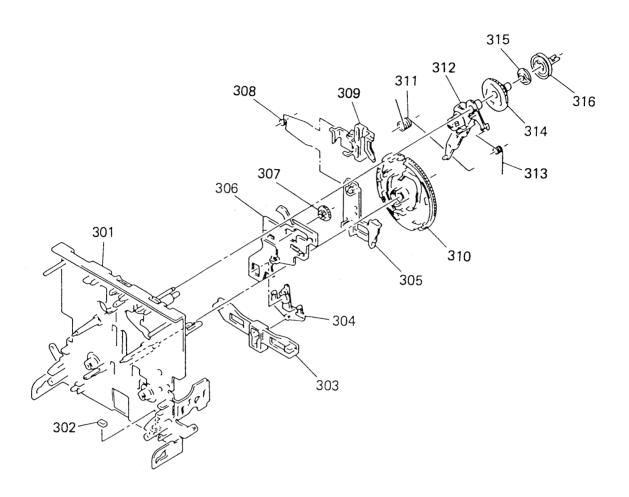
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-919-567-01	WINDOW (DISPLAY)		65	X-3369-493-1	HOLDER (L) ASSY, CASSETTE	
52	3-919-571-01	BASE, WINDOW		66	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
53	3-919-566-01	BUTTON (REC)		67	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
54	3-919-577-01	INDICATOR (REC)		68	3-354-957-01	JOINT (LOCK LEVER)	
55	3-919-573-01	COVER (AZIMUTH B)		* 69	3-354-953-01	LEVER (LOCK LEVER L)	
56	3-919-572-01	COVER (AZIMUTH A)		70	1-765-384-11	WIRE (FLAT TYPE) (7 CORE)	
57	X-3369-489-1	PANEL ASSY, FRONT		71 ·	3-354-963-01	DAMPER	
58	3-919-574-01	SLIDER (L)		72	4-951-620-01	SCREW (2.6×8) , +BVTP	
59	3-919-575-01	SLIDER (R)		* 73	3-354-954-01	LEVER (LOCK LEVER R)	
60	1-769-390-11	WIRE (FLAT TYPE) (17 CORE)		74	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
61	3-919-576-01	KNOB (SLIDE)		75	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
* 62		TC PANEL BOARD, COMPLETE		76		HOLDER (R) ASSY, CASSETTE	
63		LID (B) ASSY, CASSETTE		77		SPRING (L), TORSION	
64		LID (A) ASSY, CASSETTE		78		SPRING (R), TORSION	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-907-362-01	SPRING, TORSION		265	3-359-430-01	SPRING(CASSETTE RETAINER), LE	AF
252	3-356-714-01	WASHER		266	3-388-848-01	SCREW (P2×6) (B TIGHT)	
253	X-3366-047-1	LEVER (PINCH F) ASSY		267	3-359-414-01	SCREW (+PTPWH 2×23)	
254	3-356-713-01	WASHER		268	3-362-308-01	CAP (REEL)	
255	X-3366-048-1	LEVER (PINCH R) ASSY		* 269	A-2007-133-A	AUDIO BOARD, COMPLETE (DECK B)
256	X-3366-971-1	TABLE ASSY (B), REEL (DECK A)		* 269	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A)
256	X-3369-508-1	TABLE (C) ASSY, REEL (DECK B)		* 270		LEAF SW BOARD (DECK A) (DECK	
257	3-359-424-01	GEAR (REV GEAR)		271		PC BOARD, MOTOR FLEXIBLE	•
258	X-3367-629-1	FLYWHEEL (FWD) ASSY		272	X-3366-970-1	TABLE ASSY, REEL	
259	X-3359-410-1	FLYWHEEL (REV) ASSY (DECK A)		HP1	A-2003-757-A	BASE ASSY, HEAD (PB) (DECK A)	
259	X-3367-630-1	FLYWHEEL (REV) ASSY (DECK B)		HRPE1	A-2003-930-A	BASE ASSY, HEAD (PB/REC/ERASE) (DECK B)
260		BELT (FLAT), CAPSTAN		IC81		IC PHONT REFLECTOR NJL5165K-B	
262		BASE (THRUST RETAINER), FITTIN	IG	M101		MOTOR ASSY (CAPSTAN)	()
263		BELT (FR), SQUARE	-	M102		MOTOR ASSY (REEL)	
264		RETAINER, THRUST, CAPSTAN				(

5-4. MECHANISM SECTION-2

(DECK A : TCM-190RA12CL) DECK B : TCM-190RB52C



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301 302 303 304 305	3-359-469-01 3-359-425-01 3-359-426-01	CHASSIS ASSY, MECHANICAL SPACER SLIDER (REVERSE SLIDER) LEVER (REVERSE LEVER) SLIDER (LEVERSE SLIDER)		309 309 310 311 312	3-359-429-11 3-359-420-01 3-359-456-01	SLIDER (BRAKE PLATE) (DECK A) SLIDER (BRAKE PLATE) (DECK B) GEAR (CAM GEAR) SPRING (TRIGGER SPRING), TORSI ARM ASSY, FR	ON
* 306 306 307 308	3-359-415-11 3-359-448-01	SLIDER (TRIGGER SLIDER) SLIDER (TRIGGER SLIDER) GEAR (TRIGGER) SPRING, TORSION		313 314 315 316	3-359-419-11 3-359-421-01	SPRING (FR ARM), TORSION GEAR (FR GEAR) CLUTCH (REEL DISK) PULLEY (FR PULLEY)	

SECTION 6 ELECTRICAL PARTS LIST

AUDIO (DECK A)

AUDIO (DECK B)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal oxide-film resistor
 F: nonflammable

 Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 SEMICONDUCTORS

• SEMICONDUCTORS
In each case, u: μ, for example:
uA....: μ A...., uPA....: μ PA....
uPB....: μ PB...., uPC....: μ PC....

uPD....: μ PD.... • CAPACITORS uF: μ F

• COILS uH: μH The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board.

			u	H : ,	μН						
Ref. No.	Part No.	Description		<u>I</u>	Remark	Ref. No.	Part No.	Description			Remark
*	A-2007-266-A	AUDIO BOARD, CO *********	,	(A)				< TRANSISTOR >			
		< CAPACITOR >				Q71	8-729-216-22		SA1162-0	3	
C11	1 169 191 00	CERAMIC CHIP	390PF	5%	50V			< RESISTOR >			
C11	1-136-157-00		0. 022uF	5%	50V	R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
C12	1-124-234-00		22uF	20%	16V	R12	1-216-025-91		100	5%	1/10W
C18		CERAMIC CHIP	100PF	5%	50V	R13	1-216-100-00		130K		1/10W
C21		CERAMIC CHIP	390PF		50V	R14	1-216-068-00		6. 2K		1/10W
021	1 100 101 00	02	30011	070		R21	1-216-099-00		120K	5%	1/10W
C22	1-136-157-00	FILM	0. 022uF	5%	50V						.,
C23	1-124-234-00	ELECT	22uF	20%	16V	R22	1-216-025-91	METAL GLAZE	100	5%	1/10W
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
C31	1-124-234-00		22uF	20%	16V	R24	1-216-068-00	METAL CHIP		5%	1/10W
C32	1-124-234-00	ELECT	22uF	20%	16V	R31	1-216-033-00	METAL CHIP	220	5%	1/10₩
						R32	1-216-033-00	METAL CHIP	220	5%	1/10₩
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V						
		(COMMIDOMOD)				R71	1-216-082-00		24K	5%	1/10W
		< CONNECTOR >				R72	1-216-081-00		22K	5%	1/10W
+ CM 191	1 500 700 11	COMMECTOD DOAD	D TO DO IDD			R73	1-216-089-00		47K	5%	1/10W
		CONNECTOR, BOAR				R74	1-216-089-00	WEIAL CHIP	47K	5%	1/10W
CNSTZ	1 704 302 11	CONNECTOR, FFC/.	110 41					< VARIABLE RESI	STOR >		
		< CONNECTOR >						· Milling Regi	ioron >		
* CNP32	1 500 779-11	PIN, CONNECTOR	(DC DOADD) AI	מ		RV11	1-241-761-11	RES, ADJ, CARBO	ON 1K (1	PLAY B	BACK LEVEL L-CH)
		PIN, CONNECTOR	` ,			RV21	1-241-761-11	RES, ADJ, CARBO	ON 1K (I	PLAY B	BACK LEVEL
		< IC >				RV71	1-2/1-630-11	RES, ADJ, CARBO	าง 10 ห	(TAPE	R-CH)
		· 10 /				RV72		RES, ADJ, CARBO			
IC31	8-759-106-02	IC uPC4570G2						*******			· ·
		< JUMPER RESISTO	OR >			*	A-2007-133-A	AUDIO BOARD, CC		(DECK	(B)
JW1	1-216-295-00	METAL CHIP	0 5%	1/10) W						
JW51	1-216-296-00	METAL CHIP	0 5%	1/8				< CAPACITOR >			
J₩52	1-216-296-00	METAL CHIP	0 5%	1/8	Y						
JW53	1-216-296-00	METAL CHIP	0 5%	1/8	y	C11	1-163-131-00	CERAMIC CHIP	390PF		5% 50V
JW54	1-216-296-00	METAL CHIP	0 5%	1/87	4	C12	1-163-117-00	CERAMIC CHIP	100PF		5% 50V

AUDIO (DECK B)

Ref. No.	Part No.	Description		Rema	ark	Ref. No.	Part No.	Description			Remark
C13 C14 C15 C16 C17	1-136-153-00 1-126-177-11 1-124-234-00 1-136-434-11 1-164-080-11	ELECT ELECT FILM	0.01uF 100uF 22uF 120PF 390PF	5% 20% 20% 5% 10%	50V 10V 16V 630V 50V	JW18 JW19 JW20 JW21 JW22	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL CHIP METAL CHIP METAL CHIP	0 0 0 0	5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W
C18 C21 C22 C23 C24	1-163-131-00		27PF 390PF 100PF 0.01uF 100uF	5% 5% 5% 5% 20%	50V 50V 50V 50V 10V	JW23 JW24 JW25 JW26 JW27	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL CHIP METAL CHIP METAL CHIP	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W
C25 C26 C27 C28 C31	1-124-234-00 1-136-434-11 1-164-080-11 1-163-103-00 1-124-234-00	FILM CERAMIC CERAMIC CHIP	22uF 120PF 390PF 27PF 22uF	20% 5% 10% 5% 20%	16V 630V 50V 50V 16V	L11 L21	1-410-780-11 1-410-780-11	INDUCTOR	27mH 27mH		
C32 C33 C51 C52 C53	1-163-019-00		22uF 22uF 0. 0068uF 0. 0068uF 0. 015uF	20% 20% 10% 10% 5%	16V 16V 50V 50V 50V	Q51 Q52 Q53 Q71	8-729-111-29 8-729-111-29 8-729-111-29 8-729-216-22	TRANSISTOR TRANSISTOR	2SD1616A 2SD1616A 2SD1616A 2SA1162-	–K –K	
C54 C56 C57 C58 C72	1-164-346-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0. 01uF 2. 2uF 1uF 0. 01uF 1uF	5% 20%	630V 16V 16V 50V 50V	R11 R12 R13 R14 R15	1-216-099-00 1-216-033-00 1-216-081-00 1-216-075-00 1-216-107-00	METAL CHIP METAL CHIP METAL CHIP	120K 220 22K 12K 270K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
* CNJ33	1-580-782-11	CONNECTOR, BOAR CONNECTOR, FFC/	D TO BOARD			⚠R16 R21 R22 R23 R24	1-249-430-11 1-216-099-00 1-216-033-00 1-216-081-00 1-216-075-00	CARBON METAL CHIP METAL CHIP METAL CHIP	12K 120K 220 22K 12K	5% 5% 5% 5%	1/4W F 1/10W 1/10W 1/10W 1/10W
* CNP71	1-564-719-11	PIN, CONNECTOR PIN, CONNECTOR < IC >	(SMALL TYPE)			R25 ▲R26 R31 R32 R33	1-216-107-00 1-249-430-11 1-216-033-00 1-216-033-00 1-216-073-00	CARBON METAL CHIP METAL CHIP	270K 12K 220 220 10K	5% 5% 5% 5% 5%	1/10W 1/4W F 1/10W 1/10W
IC31 IC32	8-759-249-21 8-759-106-02	IC uPC4570G2 < JUMPER RESIST	ror >	1 /1 OW		⚠R41 <u>M</u> R42 R51 R52	1-249-393-11 1-249-393-11 1-216-689-11 1-216-689-11	CARBON METAL CHIP METAL CHIP	10 10 39K 39K	5% 5% 0. 5% 0. 5%	1/4W F 1/4W F 1/10W 1/10W
JW1 JW2 JW11 JW12 JW13 JW14 JW15 JW16	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00) METAL CHIP	0 5% 0 5% 0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W 1/8W 1/8W 1/8W 1/8W 1/8W		R53 R54 R55 R56 R71 R72	1-216-081-00 1-216-089-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL CHIP METAL CHIP	10K 5. 6 5. 6 2. 2 24K 22K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
JW17	1-216-296-00	METAL CHIP	0 5%	1/8W		R74	1-216-089-00	METAL CHIP	47K	5%	1/10W

The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety.

Replace only with part number specified.

AUDIO (DECK B) LEAF SW (DECK A) LEAF SW (DECK B) TC MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Rema	ark
		< VARIABLE RESISTOR >				< SWITCH >			
RV11		RES, ADJ, CARBON 1K (PLAY BACK	L-CH)	S81 S82	1-571-281-21	SWITCH, PUSH (1 SWITCH, LEAF (70	OEQ)	ET)	
RV12 RV21		RES, ADJ, CARBON 220K (REC BIARES, ADJ, CARBON 1K (PLAY BACK		S83 S84 S85	1-571-281-21	SWITCH, LEAF (ME SWITCH, LEAF (EF SWITCH, LEAF (EF	RASE PROOF) (SIDE A)))
RV22 RV71		RES, ADJ, CARBON 220K (REC BIARES, ADJ, CARBON 10K (TAPE SPE		S86	1-571-281-21	SWITCH, LEAF (HA	ALF)		
RV72	1-241-630-11	RES, ADJ, CARBON 10K (TAPE SPE	EED HIGH)	*		TC MAIN BOARD, (
		< TRANSFORMER >		,		******			
T51 ******		TRANSFORMER, BIAS OSCILLATION	*****			< CAPACITOR >			
*		LEAF SW BOARD (DECK A) ************ < CONNECTOR >		C104 C105 C106 C107 C108	1-130-475-00 1-130-475-00 1-124-925-11 1-136-174-00 1-136-171-00	MYLAR ELECT FILM	0. 0022uF 2. 2uF 0. 56uF	5% 5% 20% 5% 5%	50V 50V 100V 50V 50V
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P		C109 C110	1-124-925-11 1-124-925-11	ELECT	2. 2uF 2. 2uF	20% 20%	100V 100V
1001	0 740 024 10	<pre>< IC > IC PHONT REFLECTOR NJL5165K-</pre>	_D(U1)	C114 C115 C116	1-124-907-11 1-124-443-00 1-162-282-31	ELECT	10uF 100uF 100PF	20% 20% 10%	50V 10V 50V
1001	0-149-924-10	<pre></pre>	-D(III)	C110	1-124-925-11		2. 2uF	20%	100V
R84 R85	1-249-417-11 1-249-408-11	CARBON 1K 5% 1, CARBON 180 5% 1,	/4W /4W	C119 C120 C130 C131	1-124-902-00 1-124-927-11 1-162-282-31 1-162-282-31	ELECT ELECT CERAMIC	0. 47uF 4. 7uF	20% 20% 10% 10%	50V 100V 50V 50V
S81 S82 S86 *****	1-571-281-21 1-571-281-21	<pre></pre>		C132 C133 C204 C205 C206	1-124-903-11 1-162-286-21 1-130-475-00 1-130-475-00 1-124-925-11	CERAMIC MYLAR MYLAR	1uF 220PF 0. 0022uF 0. 0022uF 2. 2uF	20% 10% 5% 5% 20%	50V 50V 50V 50V 100V
*	1-638-020-11	LEAF SW BOARD (DECK B) ***********		C207 C208 C209	1-136-174-00 1-136-171-00 1-124-925-11	FILM ELECT	0. 56uF 0. 33uF 2. 2uF	5% 5% 20%	50V 50V 100V
		< CONNECTOR >		C210 C214	1-124-925-11 1-124-907-11		2. 2uF 10uF	20% 20%	100V 50V
* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P < IC >		C215 C216 C217	1-124-443-00 1-162-282-31 1-124-925-11	CERAMIC	100uF 100PF 2. 2uF	20% 10% 20%	10V 50V 100V
IC81	8-749-924-10	IC PHONT REFLECTOR NJL5165K < RESISTOR >	-B(H1)	C219 C220	1-124-902-00 1-124-927-11		0. 47uF 4. 7uF	20% 20%	50V 100V
R81 R82 R83 R84 R85	1-249-414-11 1-247-818-11 1-247-834-11 1-249-417-11 1-249-408-11	CARBON 560 5% 1 CARBON 300 5% 1 CARBON 1. 3K 5% 1 CARBON 1K 5% 1	/4W /4W /4W /4W	C230 C231 C232 C233 C502	1-162-282-31 1-162-282-31 1-124-903-11 1-162-286-21 1-128-489-11	CERAMIC ELECT CERAMIC	100PF 100PF 1uF 220PF 3300uF	10% 10% 20% 10% 20%	50V 50V 50V 50V 16V

TC MAIN

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Descrip	tion		Remark
C504	1-128-489-11	ELECT	3300uF	20%	16V	CN603	1-695-330-31	PIN. CO	NNECTOR (PC BC	OARD) 7P	
C518	1-126-927-11		2200uF	20%	10V				OR, BOARD TO E		
C519	1-126-927-11		2200uF	20%	107				OR, BOARD TO E		
C529	1-136-157-00		0. 022uF	5%	50V				OR, FFC/FPC 17		
C530	1-136-157-00		0. 022uF	5%	50V				CONNECTOR 7P		ONTROL)
C533	1-136-157-00		0. 022uF	5%	50V	* CN610	1-565-561-11	PIN, CO	NNECTOR 3P (AU	J BUS)	
C534	1-136-157-00		0. 022uF	5%	50V						
C535	1-124-360-00		1000uF	20%	16V			< DIODE	>		
C536	1-124-360-00		1000uF	20%	16V				•		
C537	1-124-472-11	ELECT	470uF	20%	10V	D508	8-719-200-02	DIODE	10E2		
						D509	8-719-200-02	DIODE	10E2		
C538	1-124-472-11		470uF	20%	10V	D510	8-719-200-02	DIODE	10E2		
C540	1-124-473-11	ELECT	1000uF	20%	10V	D511	8-719-200-02	DIODE	10E2		
C550	1-162-282-31		100PF	10%	50V	D512	8-719-200-02	DIODE	10E2		
C601	1-124-443-00	ELECT	100uF	20%	10V						
C602	1-164-159-11		0. 1uF		50V	D513	8-719-200-02	DIODE	10E2		
						D519	8-719-200-02		10E2		
C604	1-164-159-11	CERAMIC	0. 1uF		50V	D522	8-719-200-02		10E2		
C605	1-124-902-00	ELECT	0. 47uF	20%	50V	D523	8-719-987-63		1N4148M		
C606	1-124-480-11		470uF	20%	25V	D524	8-719-987-63		1N4148M		
C607	1-124-480-11		470uF	20%	25V			-1055	211121011		
C608	1-124-480-11		470uF	20%	25V	D525	8-719-200-02	DIODE	10E2		
						D526	8-719-200-02		10E2		
C609	1-124-902-00	ELECT	0. 47uF	20%	50V	D601	8-719-987-63		1N4148M		
C610	1-124-472-11		470uF	20%	10V	D602	8-719-987-63		1N4148M		
C611	1-162-290-31		470PF	10%	50V	D603	8-719-987-63		1N4148M		
C612	1-124-472-11		470uF	20%	10V	2000	0 110 001 00	DIODE	1114140111		
C613	1-162-290-31		470PF	10%	50V	D604	8-719-987-63	DIODE	1N4148M		
	- 102 200 01	02	11011	10/0	00,	D605	8-719-200-02		10E2		
C614	1-164-159-11	CERAMIC	0. 1uF		50V	D606	8-719-200-02		10E2		
C615	1-164-159-11		0. 1uF		50V	D607	8-719-987-63		1N4148M		
C616	1-124-910-11		47uF	20%	50V	D608	8-719-987-63		1N4148M		
C617	1-164-159-11		0. 1uF	2070	50V	<i>D</i> 000	0 110 001 00	DIODL	11414011		
C620	1-124-907-11		10uF	20%	50V	D609	8-719-987-63	DIODE	1N4148M		
0020	1 101 001 11	BBBOI	1001	2070	301	D610	8-719-200-02		10E2		
C621	1-124-907-11	FIFCT	10uF	20%	50V	D611	8-719-987-63		1N4148M		
C622	1-124-477-11		47uF	20%	25V	D611	8-719-010-05		UZ-2, OBSB		
C623	1-124-477-11		47uF	20%	25V	D020	0-119-010-05	DIODE	0Z-Z, 0D3D		
C630	1-124-927-11		4. 7uF	20%	100V			/ IC \			
C631	1-124-903-11		luF	20%	50V			< IC >			
0001	1 124 900 II	PPPCI	ıuı	40/0	301	JC101	8-752-058-57	IC CV	A15990		
C636	1-124-916-11	RI RCT	22uF	20%	63V		8-759-939-73				
C641	1-124-927-11		4. 7uF	20%	100V				3308		
C642	1-124-902-00		4. 7ur 0. 47uF	20%			8-752-059-55		A1331S		
C645	1-124-902-00				50V		8-759-337-73		8123M4-118FP		
C646	1-124-907-11		10uF	20%	50V	1C50Z	8-759-231-53	IC IA	7805S		
C040	1-124-925-11	ELECI	2. 2uF	20%	100V	IC503	8-759-604-86	IC M51	F7807		
C649	1-124-907-11	ELECT	10uF	20%	50V	IC504	8-759-604-90	IC M51	F7907L		
C650	1-124-916-11	ELECT	22uF	20%	63V	IC505	8-759-604-86	IC M5	F7807		
C651	1-124-443-00	ELECT	100uF	20%	10V		8-759-604-90		F7907L		
C800	1-162-282-31		100PF	10%	50V		8-759-510-54		T572D		
	1-162-294-31	CERAMIC	0.001uF	10%	50V				•		
		< CONNECTOR >					8-759-266-35 8-759-000-48		8242AK 14052BCP		
		PIN, CONNECTOR CONNECTOR, BOARI		7P							

TC MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
		< COIL >			R120	1-247-807-31	CARBON	100	5%	1/4W
					R121	1-247-807-31		100	5%	1/4W
L101	1-410-470-11	INDUCTOR	10uH		R122	1-249-422-11		2. 7K		1/4W
L102	1-410-470-11		10uH		R206	1-247-832-11		1. 1K		1/4W
L601	1-410-482-31		100uH		R207	1-247-864-11		24K	5%	1/4W
L6002	1-410-470-11	INDUCTOR	10uH							
					R208	1-249-414-11	CARBON	560	5%	1/4W
		< JACK >			R209	1-249-429-11	CARBON	10K	5%	1/4W
					R210	1-249-427-11	CARBON	6.8K	5%	1/4W
PJ101	1-695-188-31	JACK, PIN 4P	(TAPE-1)		R211	1-249-427-11	CARBON	6.8K	5%	1/4W
					R212	1-247-832-11	CARBON	1.1K	5%	1/4W
		< TRANSISTOR	>							
					R213	1-249-429-11		10K	5%	1/4W
Q101	8-729-107-85		2SC3623A-K		R214	1-249-421-11		2. 2K		1/4W
Q122	8-729-900-89		DTC144ES		R215	1-247-887-00	CARBON	220K	5%	1/4W
Q201	8-729-107-85		2SC3623A-K		R216	1-249-437-11		47K	5%	1/4W
Q222	8-729-900-89		DTC144ES		R217	1-249-415-11	CARBON	680	5%	1/4W
Q603	8-729-801-93	TRANSISTOR	2SD1387							
					R218	1-249-439-11		68K	5%	1/4W
Q604	8-729-801-93		2SD1387		R219	1-249-415-11		680	5%	1/4W
Q605	8-729-900-80		DTC114ES		R220	1-247-807-31		100	5%	1/4W
Q607	8-729-900-89		DTC144ES		R221	1-247-807-31		100	5%	1/4W
Q608	8-729-900-89		DTC144ES		R222	1-249-422-11	CARBON	2.7K	5%	1/4W
Q609	8-729-900-89	TRANSISTOR	DTC144ES							
					R504	1-247-807-31		100	5%	1/4W
Q611	8-729-107-85		2SC3623A-K		R505	1-249-429-11		10K	5%	1/4₩
Q612	8-729-119-76		2SA1175-HFE		R506	1-249-393-11		10	5%	1/4W
Q613	8-729-900-65		DTA144ES		R601	1-247-807-31		100	5%	1/4W
Q614	8-729-900-89		DTC144ES		R602	1-247-807-31	CARBON	100	5%	1/4W
Q620	8-729-900-89	TRANSISTOR	DTC144ES							
					R606	1-249-435-11		33K	5%	1/4W
Q621	8-729-900-65		DTA144ES		R607	1-247-807-31		100	5%	1/4W
Q627	8-729-900-89		DTC144ES		R615	1-247-807-31		100	5%	1/4W
Q630	8-729-900-61		DTA114ES		R616	1-247-863-91		22K	5%	1/4W
Q802	8-729-900-80		DTC114ES		R620	1-249-441-11	CARBON	100K	5%	1/4W
Q803	8-729-900-80	TRANSISTOR	DTC114ES		2001					
0004	0 700 000 00	TO ANOTOTOD	DT011 (D0		R621	1-249-417-11		1 K	5%	1/4W
Q804	8-729-900-80		DTC114ES		R622	1-249-421-11		2. 2K		1/4W
Q805	8-729-900-80	TRANSISTOR	DTC114ES		R623	1-249-421-11		2.2K		1/4W
		(DDOLOMOD)			R624	1-249-434-11		27K	5%	1/4W
		< RESISTOR >			R625	1-249-421-11	CARBON	2. 2K	5%	1/4W
DIAG	1-247-832-11	CADDOM	1 177 50	1 / 410	Deac	1 240 421 11	CADDON	0 017	Γ0/	1 / 4307
			1. 1K 5%			1-249-421-11		2. 2K		1/4W
R107 R108	1-247-864-11 1-249-414-11		24K 5% 560 5%		R627 R628	1-249-421-11		2. 2K		1/4W
R109	1-249-414-11		10K 5%		R629	1-249-434-11 1-249-421-11		27K 2.2K	5%	1/4W
R110	1-249-425-11		6.8K 5%		R630	1-249-421-11			5%	1/4W
KIIU	1-449-441-11	CARDON	0.01 3/0	1/4#	позо	1-249-429-11	CARDON	10K	3%	1/4W
R111	1-249-427-11	CARBON	6.8K 5%	1/4W	R631	1-249-421-11	CARBON	2. 2K	5%	1/4W
R112	1-247-832-11		1. 1K 5%		R632	1-249-429-11		2. ZK 10K	5%	1/4W
R113	1-249-429-11		10K 5%		R633	1-247-807-31		100	5%	1/4W
R114	1-249-421-11		2. 2K 5%	,	R634	1-247-807-31		100	5%	1/4W
R115	1-247-887-00		220K 5%		R637	1-249-414-11		560	5%	1/4W
										•
R116	1-249-437-11	CARBON	47K 5%	1/4W	R640	1-249-428-11	CARBON	8.2K	5%	1/4W
	1-249-415-11	CARBON	680 5%	1/4W	R641	1-249-409-11	CARBON	220	5%	1/4W
R118	1-249-439-11	CARBON	68K 5%	1/4W	R642	1-249-421-11	CARBON	2.2K	5%	1/4W
R119	1-249-415-11	CARBON	680 5%	1/4W	R643	1-247-807-31	CARBON	100	5%	1/4W
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TC MAIN TC PANEL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R644	1-247-807-31	CARBON	100	5%	1/4W	R820	1-249-417-11	CARBON	1K	5%	1/4W
R648	1-249-437-11		47K	5%	1/4₩	R821	1-249-417-11		1K	5%	1/4W
R649	1-249-437-11		47K	5%	1/4W	R822	1-249-417-11		1K	5%	1/4W
R650	1-249-437-11		47K	5%	1/4W	R823	1-249-425-11		4.7K	5%	1/4W
R656	1-249-393-11		10	5%	1/4W		1-249-421-11		2.2K		1/4W
R660	1-249-417-11	CARBON	1K	5%	1/4W	R6071	1-249-421-11	CARBON	2. 2K	5%	1/4W
R661	1-249-434-11	CARBON	27K	5%	1/4W						
R670	1-247-863-91		22K	5%	1/4W			< VARIABLE RESI	STOR >		
R673	1-249-429-11	CARBON	10K	5%	1/4W						
R674	1-247-860-11	CARBON	16K	5%	1/4W			RES, ADJ, CARBO			
5055		CIPPON	1011	E 0/	7 / / / //	RV201	1-238-600-11	RES, ADJ, CARBO	N 10K		
R675	1-249-429-11		10K	5%	1/4₩						
R676	1-249-434-11		27K	5%	1/4W			< VIBRATOR >			
R677	1-247-807-31		100	5%	1/4W						
R678	1-247-807-31		100	5%	1/4W	X601		VIBRATOR, CERAN			
R679	1-247-807-31	CARBON	100	5%	1/4W	*****	******	*****	*****	*****	******
R680	1-249-441-11	CADDON	100K	5%	1/4W	*	A. 2007 202 A	TC PANEL BOARD,	COMDI	DTD	
R681	1-249-441-11		100K	5%	1/4W	*	H-2001-302-A	*************			
R682	1-249-429-11			5% 5%	II			*****	*****	***	
	1-249-429-11		10K		1/4W			/ CONNECTOD \			
R683 R684	1-249-429-11		10K 470	5%	1/4W			< CONNECTOR >			
K004	1-249-415-11	CARDUN	470	5%	1/4W	CNIQOO	1_770_160_11	CONNECTOR, FFC/	(EDC 17	D .	
R685	1-249-429-11	CARRON	10K	5%	1/4W	CNSOO	1 770 103 11	CONNECTOR, TTC/	IIC II	1	
R686	1-249-429-11		10K	5%	1/4W			< DIODE >			
R687	1-249-417-11		16K	5%	1/4W			V DIODE /			
R689	1-249-417-11		51K	5%	1/4W	D900	8-719-046-42	LED SEL5421E-	THOE (DECK Y	~)
R690	1-247-672-11		10K	5% 5%	1/4W	D900 D901	8-719-046-42				
КОЭО	1-249-429-11	CARDON	101/	3/6	1/41	D901 D902	8-719-046-42				
R691	1-249-425-11	CADDON	4. 7K	5%	1/4W	D902 D903	8-719-046-42			•	
R693	1-247-863-91		22K	5%	1/4W	D903	8-719-046-44				
R694	1-247-863-91		22K	5%	1/4W	D300	0-113-040-44	PED SEP37712	1115 (CD 31W	Cino)
R695	1-247-603-91		2. 2K	5% 5%		D007	9-710-046-44	IED CELESSIC	TD1E /	עדרטד/	
R696	1-249-421-11		2. 2K 2. 2K		1/4W 1/4W	D907 D908	8-719-046-44 8-719-046-44				`
11090	1-249-421-11	CARDON	2. ZN	3/0	1/41	D908 D909	8-719-046-44)
R700	1-247-903-00	CADRON	1M	5%	1/4W	D909 D910	8-719-040-30			,	
R701	1-249-429-11		10K	5%	1/4W	D310	0-115-040-44	LED OFFOREIS	-1115 ((NEC)	
R702	1-249-429-11		47K	5%	1/4W			< RESISTOR >			
R801								/ NESISIUM /			
R802	1-249-417-11 1-247-807-31		1K 100	5% 5%	1/4W 1/4W	DOOO	1 940 410 11	CADDON	1, 2K	F0/	1 / 430
NOUL	1-241-001-31	CANDON	100	3/0	1/411	R900 R901	1-249-418-11 1-249-420-11		1. 2K		1/4W 1/4W
R803	1-247-807-31	CADDOM	100	5%	1/4W	R902	1-249-420-11		1. on 2. 7K		1/4W
					· .						
R804	1-247-807-31		100	5%	1/4W	R903	1-249-424-11		3. 9K		1/4₩
R805	1-247-807-31		100	5%	1/4W	R904	1-249-427-11	CARBON	6.8K	5%	1/4W
R807	1-247-863-91		22K	5%	1/4W	DOOF	1 '040 410 11	CADDON	1 017	E0/	1 / 470
R808	1-249-429-11	CARBON	10K	5%	1/4W	R905	1-249-418-11		1. 2K		1/4₩
D000	1 240 420 11	CADDOM	107	⊏0/	1 / 4107	R906	1-249-420-11		1.8K		1/4W
R809	1-249-429-11		10K	5% = %	1/4W	R907	1-249-422-11		2. 7K		1/4W
R810	1-249-429-11		10K	5% = %	1/4W	R908	1-249-424-11		3. 9K		1/4W
R813	1-249-411-11		330	5%	1/4W	R909	1-249-427-11	CARBUN	6.8K	5 %	1/4W
R814	1-249-411-11		330	5% 5%	1/4₩	D010	1 040 401 11	CADDOM	1 5 17	E0/	1:/AW
R815	1-249-411-11	CAKBON	330	5%	1/4W	R910	1-249-431-11		15K	5%	1/4W
D010	1 040 411 11	CADDOM	220	E0/	1 / 4111	R911	1-249-437-11		47K	5%	1/4W
R816	1-249-411-11		330	5%	1/4₩	R914	1-249-426-11		5. 6K		1/4W
R817	1-249-411-11		330	5% = v	1/4W	R915	1-249-434-11		27K	5%	1/4W
R818	1-249-435-11		33K	5% = %	1/4W	R916	1-249-425-11	CAKBUN	4.7K	5%	1/4W
R819	1-249-393-11	CANDON	10	5%	1/4W						

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
\$900 \$901 \$902 \$903 \$904	1-762-205-11 1-554-303-21 1-554-303-21	SWITCH, SLIDE (DIRECTION MODE) SWITCH, SLIDE (DOLBY NR) SWITCH, TACTILE (□) SWITCH, TACTILE (▷) SWITCH, TACTILE (◁)	
\$905 \$906 \$907 \$908 \$909	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, TACTILE (PAUSE) SWITCH, TACTILE (AMS/◆ SWITCH, TACTILE (AMS/▶ SWITCH, TACTILE (□) SWITCH, TACTILE (▷)	
S910 S911 S912 S913 S915	1-554-303-21 1-554-303-21	SWITCH, TACTILE (△) SWITCH, TACTILE (AMS/◆) SWITCH, TACTILE (AMS/▶) SWITCH, TACTILE (♠REC) SWITCH, TACTILE (DUBBING MODE)	
S917	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO) SWITCH, TACTILE (REC MUTE) ************************************	*****
		MISCELLANEOUS ********	
	1-765-384-11 1-638-983-11 A-2003-757-A	WIRE (FLAT TYPE) (17 CORE) WIRE (FLAT TYPE) (7 CORE) PC BOARD, MOTOR FLEXIBLE BASE ASSY, HEAD (PB) (DECK A) BASE ASSY, HEAD (PB/REC/ERASE)	(DECK B)
IC81 M101 M102	X-3365-377-2	IC PHONT REFLECTOR NJL5165K-B (MOTOR ASSY (CAPSTAN) MOTOR ASSY (REEL)	(H1)
******	******	***********	*****

#1 #2 #3 #4 #5	7-685-871-01 7-621-770-67 7-685-862-04 7-621-775-00	SCREW +BVTP 3×8 TYPE2 N-S SCREW +BVTT 3×6 (S) SCREW +PTT 2.6×6 (S) SCREW +BVTT 2.6×6 (S) SCREW +B 2.6×3	
#6	7-627-556-08	SCREW +P 2.6×2.8	